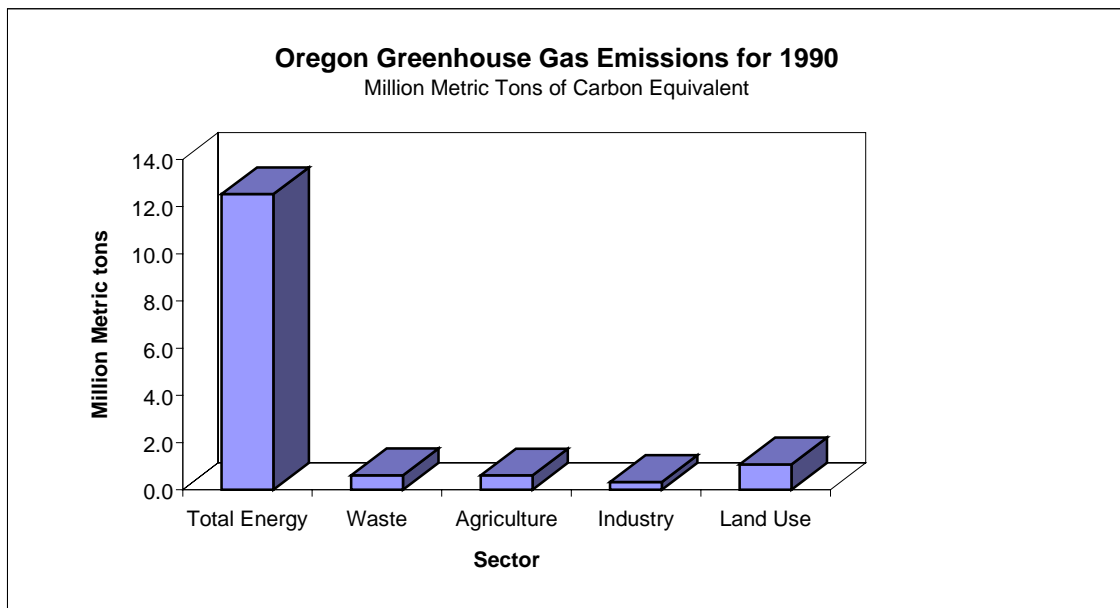


OREGON GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



This report provides a detailed inventory of greenhouse gas emissions and sinks for Oregon in 1990. The majority of emissions were estimated using methods from EPA's 1992 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Oregon emitted 15.1 million metric tons of carbon equivalent (MMTCE). Oregon estimated emissions of 0.2 MMTCE from other sources not included in the workbook.¹ Emissions from these sources are not included in the reported total or the table below.

The principal greenhouse gas was carbon dioxide, comprising 49.9 million metric tons. Other emissions included 0.2 million metric tons of methane (1.2 MMTCE), less than 1 thousand metric tons of nitrous oxide (0.1 MMTCE), and less than one thousand metric tons of perfluorocarbons (PFCs) (1 MMTCE).

The major source of carbon dioxide emissions was fossil fuel combustion (91%), with minor emissions from deforestation (8.5%) and industrial processes (0.6%). Carbon dioxide sinks resulting from land use were not estimated in this inventory. Contributors to methane emissions were landfills (50%), domesticated animals (32%), manure management (9%), and natural gas production (4.5%). Nitrous oxide emissions were accounted for by fertilizer use.

Oregon's emissions in 1990 were 4.9 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.

¹ These emissions include methane from electricity use, range cattle, and grass straw burning; and carbon dioxide from aluminum production and calcium hydrate manufacturing.

Oregon Greenhouse Gas Emissions for 1990

SECTOR	CO ₂ (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	PFCs (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	0.3	*	*	*	1.4
Energy - Commercial	0.3	*	*	*	1.2
Energy - Industrial	0.9	*	*	*	3.4
Energy - Transport	5.5	*	*	*	22.3
Energy - Utility	4.4	*	*	*	17.8
Energy - Other	1.0				1.0
Total Energy	12.5	0.1	*	*	12.5
Waste	*	0.6	*	*	0.6
Agriculture	*	0.5	0.1	*	0.6
Industry	0.1	*	*	0.2	0.3
Land Use	1.1	*	*	*	1.1
Total	13.6	1.2	0.1	1.0	15.1

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk (*) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions due to coal mining and extraction of natural gas and oil are included in the total energy figures.